



DG-Coupled Hybrid Energy Storage System



More Energy-Efficient

Integrated DG-ESS operation helps reduce diesel fuel consumption.



Enhanced Reliability

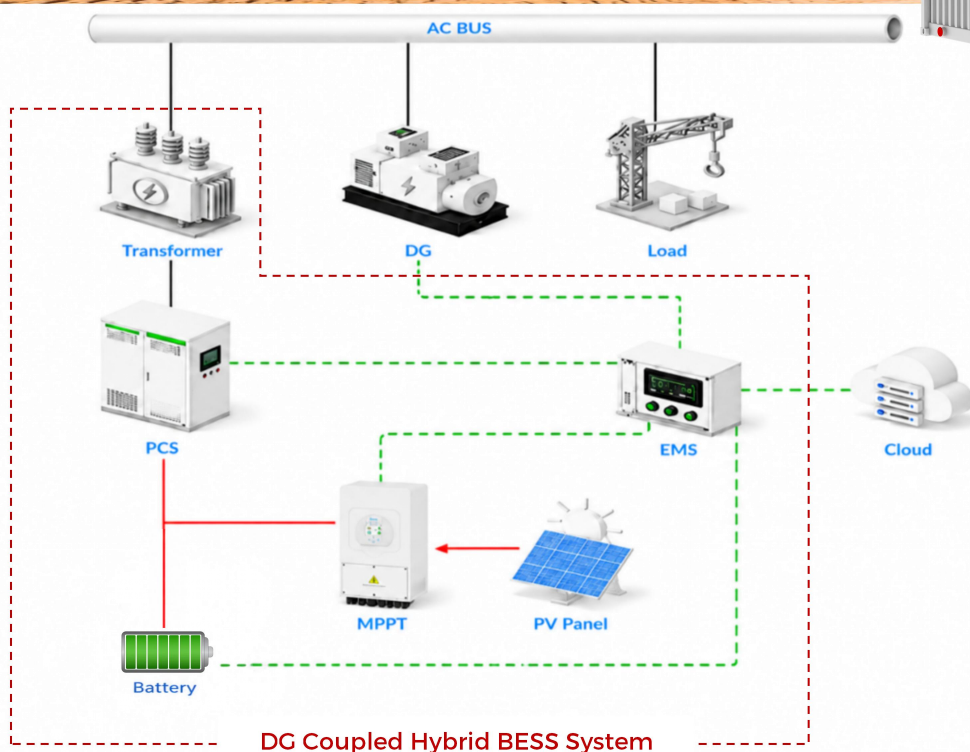
Stable power supply ensures uninterrupted and reliable operation.



Lower Emissions

Reduced emissions support sustainable and low-carbon development.

Technical Specifications



Item		HPE150	HPE250	HPE500
Diesel Generator Input Specifications	Power(kVA)	100-300	100-300	100-500
	Input	AC400V.50/60Hz		
	Communication Interface	RS485/Ethernet		
	Diesel Generator Controller	Supports synchronization and intelligent power control functions		
PV Input Parameters	Coupling Method	DC Coupling		
	PV Power(kW)	100-200	100-200	100-400
	Communication Interface	RS485		
Battery Parameters	Rated Energy(kWh)	150-300	200-400	400-600
	Thermal Management	Air Conditioning	Liquid Cooling	Liquid Cooling
	Fire Protection System	Temperature Detection + Smoke Detection + Aerosol-Based Fire Suppression		
	Output Power (kW)	150	250	500
Grid-Side AC Output Parameters	Rated Voltage (V)	400(3L/N/PE)		
	Grid Frequency(Hz)	50/60		
	Output Current (A)	215	360	720
	Power Factor	-1~1		
	THDi	<3% at rated power		
	Output Power (kW)	150	250	500
Off-Grid AC Output Parameters	Output Overload Capability	1.1× continuous overload; 1.2× for 90 s; 1.3× for 20 s	1.1× continuous overload; 1.2× for 90 s; 1.3× for 20 s	1.1× continuous overload; 1.2× for 90 s; 1.3× for 20 s
	Output Current (A)	215	360	720
	Rated Output Voltage(V)	400(3L/N/PE)		
	Rated AC Frequency (Hz)	50/60		
	Enclosure Protection Rating	IP55		
General Parameters	Anti-Corrosion Rating	C4		
	Operating Temperature(°C)	-20°C to +55°C		
	Storage Temperature (°C)	-20~+50		
	Humidity	0-95%RH(non-condensing)		
	Altitude(m)	≤3000m		
	Dimensions,L*W*H(mm)	2800*2290*2200	2800*2290*2200	3600*2290*2200
	Weight(t)	3.2	3.2	6.5